SIEMENS

MammoReport^{Plus}

SP

System Manual

Maintenance Instructions

System maintenance

The Maintenance Protocol
SPB7-420.832.20.01.02 is required for these Instructions

© Siemens AG 2005
The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

English
Print No.: SPB7-420.831.20.01.02
Doc. Gen. Date: 01/05

Chapter	Page	Revision
all	all	01

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such services.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.

Copyright notice

The DICOM functionalities in the MammoReportPlus system are based on the libraries from Merge Technologies Inc.

FSC Celsius R610 and Fujitsu Siemens 38B2 are trademarks of their respective owners.

Windows XP Professional is a trademark of Microsoft Corporation.
SIMOMED SMM 21201P and syngo are trademarks of Siemens AG.

Softcopy reading software by MeVis BreastCare,
copyright © 2001 - 2005 by MeVis BreastCare.

Contents 0 - 1

Page

1 General information 1 - 1

Safety Information . . . . . 1 - 1
Training . . . . . 1 - 1
Documents required . . . . . 1 - 1
Time required . . . . . 1 - 1
Text emphasis . . . . . 1 - 2
Explanation of abbreviations . . . . . 1 - 2

2 Hardware maintenance 2 - 1

Computer . . . . . 2 - 1
Cables . . . . . 2 - 2
Keyboard and mouse . . . . . 2 - 2
Monitors . . . . . 2 - 2

3 Check of image quality 3 - 1

4 Changes to previous version 4 - 1

Contents

Page

1 General information

These instructions describe the maintenance of the MammoReport^{Plus} system.
All maintenance should be carried out on a yearly basis.

All maintenance performed must be checked off in the MammoReport^{Plus} Maintenance Protocol (SPB7- 420.832.20...).

1.1 Safety Information

The product specific safety information contained in this document, as well as the general safety information must be observed.

The general ESD guidelines must be observed. (Refer to document ARTD-001.709.01...)

1.2 Training

The training required is described in the document Field Service Strategy (SPB7-420.890.10...).

1.3 Documents required

- Maintenance Protocol (SPB7- 420.832.20...)
- MammoReport^{Plus} Quality Control Manual (SPB7-420.621.20 ...)

1.4 Time required

Approximately 2 - 2.5 hours for one CSE.

1.5 Text emphasis

⚠DANGER	**DANGER indicates when there is an immediate danger that leads to death or serious physical injury.**
⚠WARNING	**WARNING indicates a risk of danger that may lead to death or to serious physical injury.**
⚠CAUTION	**CAUTION used with the safety alert symbol indicates a risk of danger that leads to slight or moderate physical injury and/or damage to property.**
NOTICE	**NOTICE used without the safety alert symbol indicates a risk of danger that if disregarded leads or may lead to a potential situation which may result in an undesirable result or state other than death, physical injury or damage to property.**
NOTE	**NOTE contains information provided with special emphasis to facilitate proper use of the equipment or proper execution of a procedure, i.e. hints, tips.**

1.6 Explanation of abbreviations

Abbreviation	Explanation
SI	Safety Inspection
SIE	Safety Inspection Electrical Safety
SIM	Safety Inspection Mechanical Safety
PM	Preventive Maintenance
PMP	Preventive Maintenance, Preventive Parts Exchange, External Inspection, etc.
PMA	Preventive Maintenance Adjustments
PMF	Preventive Maintenance Function, Operating Value Check
Q	Quality Check
QIQ	Quality Check Image
QSQ	Quality Check System
SW	Software Maintenance

The work steps in this document that are identified by these abbreviations should be checked off in the Maintenance Protocol (SPB7-420.832.20...).

2 Hardware maintenance

2.1 Computer

- Remove the computer access panel, refer to Fig. 1.

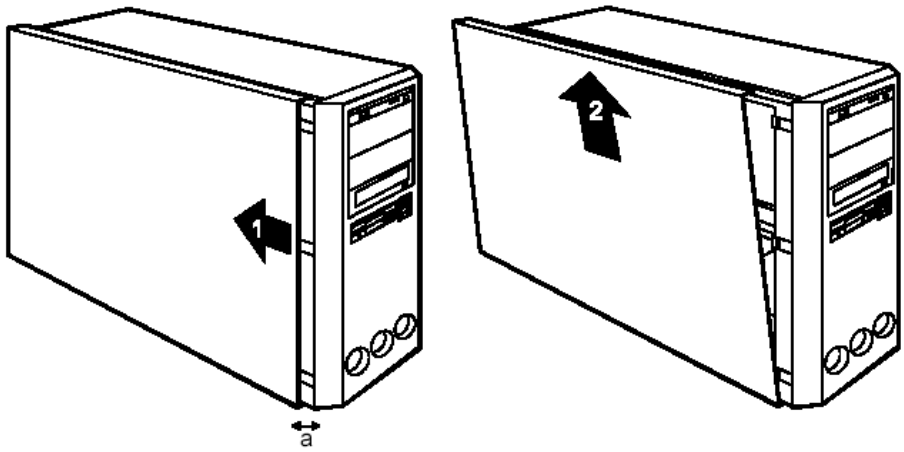

Fig. 1 Remove the access panel.

⚠WARNING

High Voltage!

Life-threatening electric shock hazard exists.

Do not touch computer components until the power supply cable has been disconnected.

⚠CAUTION

The computer contains electrostatic highly sensitive components requiring particular care in their handling.

Risk of damaging components.

Be sure to follow the ESD guidelines. When cleaning, make sure that no cleaning liquid penetrates into the equipment.

PM Check of fans

- Visually check that the two fans that are cooling the processors are working properly. The air should flow from front to back.
- Visually check that the power supply fan works properly. The air should flow from front to back.
- Listen to the noise of the fans. Does it sound ok?
- Shut down the operating system properly and turn off the computer and any external devices.
- Disconnect the power supply cable.

PM Fans - cleaning

- Clean dust from all fans.

PM Check internal cables and plugs

- Check that all internal cables are properly connected to the devices.

PM Cleaning

- If necessary, clean dust from the computer cabinet.
- Reinstall the computer access panel and connect the power supply cable.

2.2 Cables

PM Check that cables are not squeezed or broken

- Check that the cables are neither squeezed nor broken; if they are, they must be replaced.

PM Check all external cable connections

- Check that all external cables are properly connected.

PM Safe cable run

- Check that all cables are placed in such a way that no one will trip over them.

2.3 Keyboard and mouse

PM Keyboard - cleaning

- Use a damp cloth to clean dust from the keyboard.

PM Mouse - operational check

- Check that the mouse is operational.

PM Mouse - cleaning

- Open the mouse and clean the rolls inside the housing.
- Clean the external surface of the mouse.

2.4 Monitors

PM Desktop placement

- Ensure that the two high resolution monitors are safely placed on the workstation table.
- Ensure that the service monitor is safely placed on a side table.

PM Cleaning

- Clean the housing of the two high resolution monitors and the service monitor with a damp cloth.
- Wipe the glass with a cloth moistened with a lukewarm aqueous solution of mild detergent.

3 Check of image quality

QIQ Calibration of High resolution monitors

The two High resolution monitors must be calibrated every year.

- Perform calibration according to the MammoReport^{Plus} System Manual Calibration of Monitors (SPB7- 420.820.20...)
- Check calibration according to the MammoReport^{Plus} Quality Control Manual (SPB7-420.621.20 ...).

This page intentionally left blank.

4 Changes to previous version

Chapter	Page	Change
		Initial version

This page intentionally left blank.